

## ABSTRACT

A subject for the invention is to provide an alkali-free glass which is capable of reducing or totally eliminating  $\text{As}_2\text{O}_3$  and which has fewer bubble inclusion than that in the prior technology.

The invention relates to an alkali-free glass which comprises  $\text{SiO}_2$  in an amount of from 40 to 70% by weight;  $\text{Al}_2\text{O}_3$  in an amount of from 6 to 25% by weight;  $\text{B}_2\text{O}_3$  in an amount of from 5 to 20% by weight;  $\text{MgO}$  in an amount of from 0 to 10% by weight;  $\text{CaO}$  in an amount of from 0 to 15% by weight;  $\text{BaO}$  in an amount of from 0 to 30% by weight;  $\text{SrO}$  in an amount of from 0 to 10% by weight;  $\text{ZnO}$  in an amount of from 0 to 10% by weight, each based on the total amount of said glass, and helium and/or neon in an amount of from 0.0001 to 2  $\mu\text{l/g}$  ( $0^\circ\text{C}$ , 1 atm.).